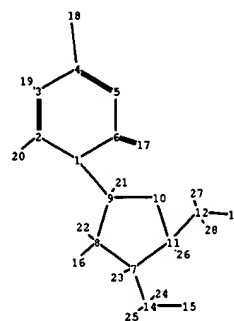
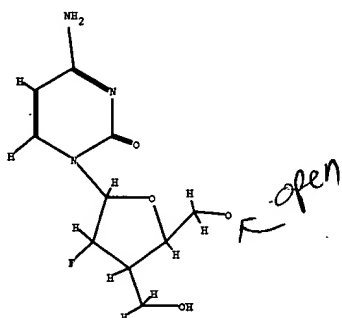


Formula I



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

1-9 2-20 3-19 4-18 6-17 7-14 7-23 8-16 8-22 9-21 11-12 11-26 12-13 12-27  
12-28 14-15 14-24 14-25

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

1-2 1-6 1-9 2-3 3-4 4-5 4-18 5-6 6-17 7-8 7-11 8-9 9-10 10-11 12-13 14-15

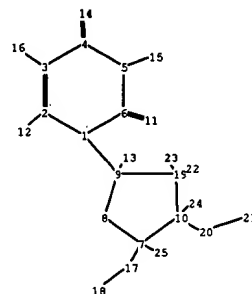
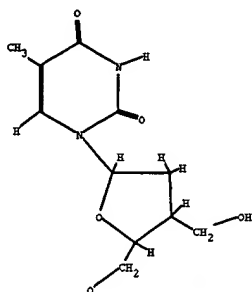
exact bonds :

2-20 3-19 7-14 7-23 8-16 8-22 9-21 11-12 11-26 12-27 12-28 14-24 14-25

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS  
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS

Formula II



chain nodes :

11 12 13 14 15 16 17 18 20 21 22 23 24 25

ring nodes :

1 2 3 4 5 6 7 8 9 10 19

chain bonds :

1-9 2-12 3-16 4-14 5-15 6-11 7-17 7-25 9-13 10-20 10-24 17-18 19-22 19-23  
20-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-10 8-9 9-19 10-19

exact/norm bonds :

1-2 1-6 1-9 2-3 3-4 4-5 4-14 5-6 6-11 7-8 7-10 8-9 9-19 10-19

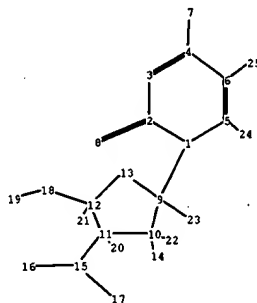
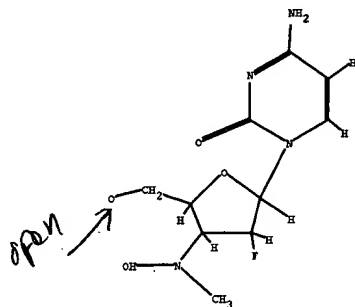
exact bonds :

2-12 3-16 5-15 7-17 7-25 9-13 10-20 10-24 17-18 19-22 19-23 20-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS  
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:CLASS  
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS

Formula III



chain nodes :

7 8 14 15 16 17 18 19 20 21 22 23 24 25

ring nodes :

1 2 3 4 5 6 9 10 11 12 13

chain bonds :

1-9 2-8 4-7 5-24 6-25 9-23 10-14 10-22 11-15 11-20 12-18 12-21 15-16 15-17  
18-19

ring bonds :

1-2 1-5 2-3 3-4 4-6 5-6 9-10 9-13 10-11 11-12 12-13

exact/norm bonds :

1-2 1-5 1-9 2-3 2-8 3-4 4-6 4-7 5-6 9-10 9-13 10-11 11-12 11-15 12-13  
15-16

exact bonds :

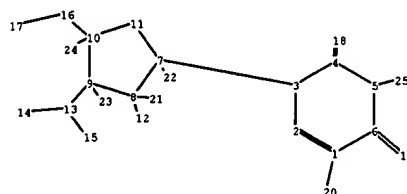
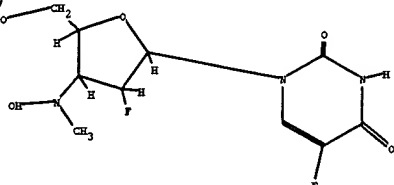
5-24 6-25 9-23 10-14 10-22 11-20 12-18 12-21 15-17 18-19

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS

Formula IV

open  
↓



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23 24 25

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

1-20 3-7 4-18 5-25 6-19 7-22 8-12 8-21 9-13 9-23 10-16 10-24 13-14 13-15  
16-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-18 5-6 6-19 7-8 7-11 8-9 9-10 9-13 10-11 13-14

exact bonds :

1-20 5-25 7-22 8-12 8-21 9-23 10-16 10-24 13-15 16-17

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS  
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal600txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
NEWS 4 OCT 03 MATHDI removed from STN  
NEWS 5 OCT 04 CA/Caplus-Canadian Intellectual Property Office (CIPO) added  
to core patent offices  
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005  
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download  
of Caplus documents for use in third-party analysis and  
visualization tools  
NEWS 8 OCT 27 Free KWIC format extended in full-text databases  
NEWS 9 OCT 27 DIOGENES content streamlined  
NEWS 10 OCT 27 EPFULL enhanced with additional content  
NEWS 11 NOV 14 CA/Caplus - Expanded coverage of German academic research  
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental  
spectral property data  
NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available  
NEWS 14 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE  
NEWS 15 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
NEWS 16 DEC 14 CA/Caplus to be enhanced with updated IPC codes  
NEWS 17 DEC 16 MARPATprev will be removed from STN on December 31, 2005

NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.  
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT  
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE "HOME" ENTERED AT 14:38:01 ON 20 DEC 2005

=> file reg  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 14:38:10 ON 20 DEC 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 DEC 2005 HIGHEST RN 870234-75-6  
DICTIONARY FILE UPDATES: 19 DEC 2005 HIGHEST RN 870234-75-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

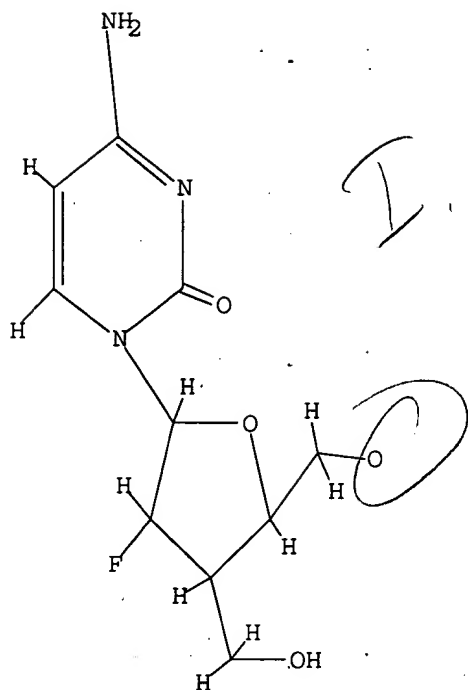
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\098345961.str

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\Stnexp\Queries\09834596ii.str

L2 STRUCTURE UPLOADED

=> d 12

L2 HAS NO ANSWERS

L2 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

=>

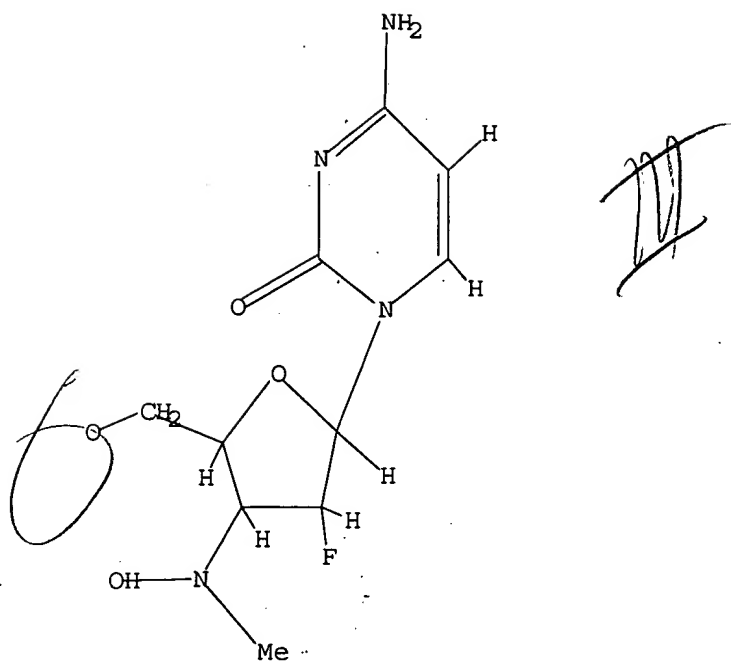
Uploading C:\Program Files\Stnexp\Queries\09834596iii.str

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR

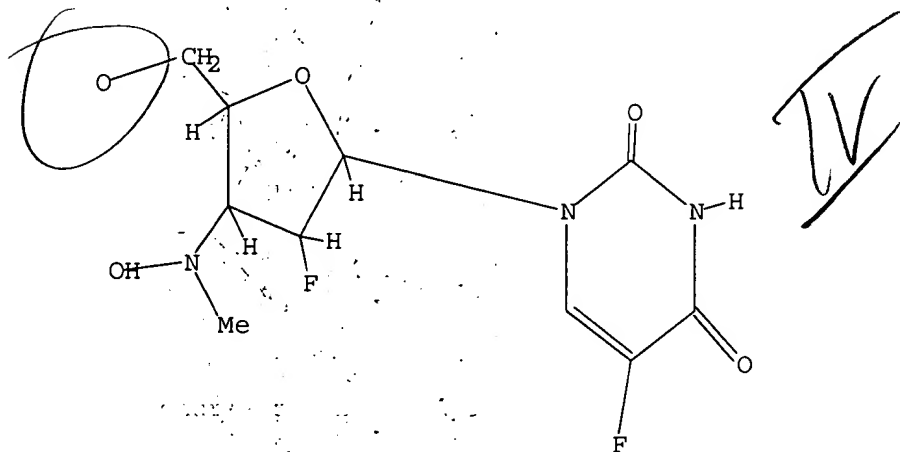


Structure attributes must be viewed using STN Express query preparation.

=>  
Uploading C:\Program Files\Stnexp\Queries\09834596iv.str

L4 STRUCTURE UPLOADED

=> d 14  
L4 HAS NO ANSWERS  
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 14:38:01 ON 20 DEC 2005)



FILE 'REGISTRY' ENTERED AT 14:38:10 ON 20 DEC 2005

L1 STRUCTURE UPLOADED  
L2 STRUCTURE UPLOADED  
L3 STRUCTURE UPLOADED  
L4 STRUCTURE UPLOADED

=> s l1 sam

SAMPLE SEARCH INITIATED 14:39:58 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1 TO 80  
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:40:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7 TO ITERATE

100.0% PROCESSED 7 ITERATIONS  
SEARCH TIME: 00.00.01

2 ANSWERS

L6 2 SEA SSS FUL L1

=> s l2 sss full

FULL SEARCH INITIATED 14:40:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 724 TO ITERATE

100.0% PROCESSED 724 ITERATIONS  
SEARCH TIME: 00.00.01

16 ANSWERS

L7 16 SEA SSS FUL L2

=> s l3 sss full

FULL SEARCH INITIATED 14:40:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 62 TO ITERATE

100.0% PROCESSED 62 ITERATIONS  
SEARCH TIME: 00.00.01

2 ANSWERS

L8 2 SEA SSS FUL L3

=> s l4 sss full

FULL SEARCH INITIATED 14:40:26 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 62 TO ITERATE

100.0% PROCESSED 62 ITERATIONS  
SEARCH TIME: 00.00.01

4 ANSWERS

L9 4 SEA SSS FUL L4

=> s l6 or l7 or l8 or l9

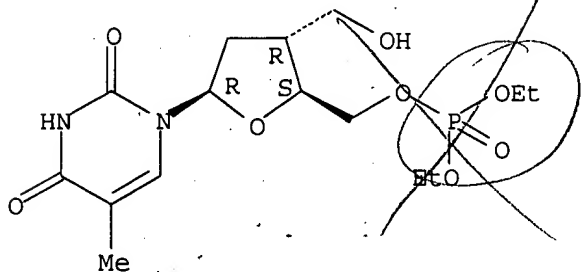
L10 24 L6 OR L7 OR L8 OR L9

=> d 1-24 110

L10 ANSWER 11 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 858676-19-4 REGISTRY

ED Entered STN: 07 Aug 2005  
 CN 5'-Thymidylic acid, 3'-deoxy-3'-(hydroxymethyl)-, diethyl ester (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C15 H25 N2 O8 P  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

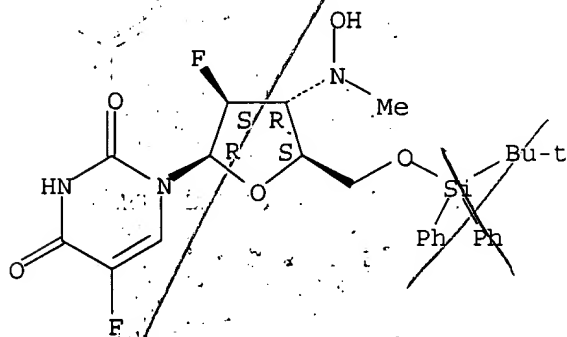


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 2 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 688036-16-0 REGISTRY  
 ED Entered STN: 01 Jun 2004  
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-5-O-[(1,1-dimethylethyl)diphenylsilyl]-2-fluoro-3-(hydroxymethylamino)-β-D-arabinofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H31 F2 N3 O5 Si  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



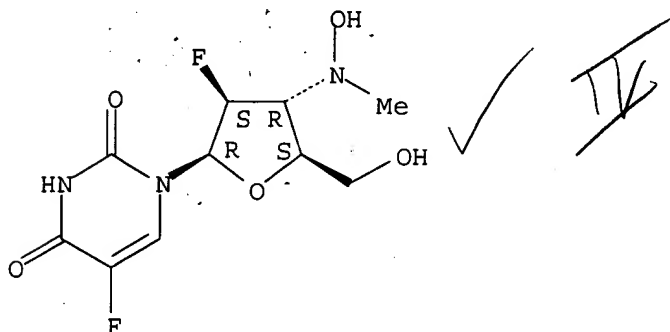
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 3 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 688036-15-9 REGISTRY  
 ED Entered STN: 01 Jun 2004

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-2-fluoro-3-(hydroxymethylamino)-  
 β-D-arabinofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C10 H13 F2 N3 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

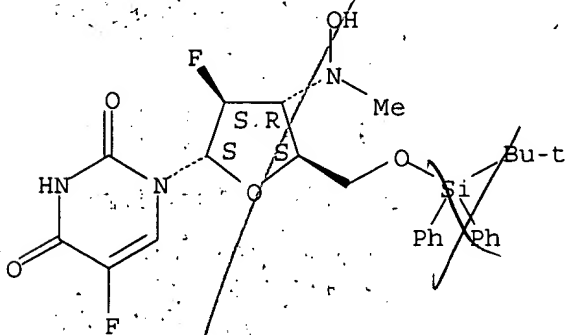


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 4 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 688036-07-9 REGISTRY  
 ED Entered STN: 01 Jun 2004  
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-5-O-[(1,1-dimethylethyl)diphenylsilyl]-2-fluoro-3-(hydroxymethylamino)-α-D-arabinofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H31 F2 N3 O5 Si  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



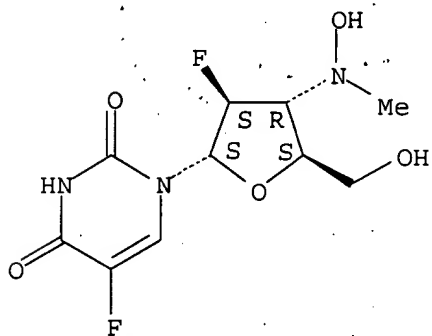
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 5 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN

RN 688036-01-3 REGISTRY  
ED Entered STN: 01 Jun 2004  
CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-2-fluoro-3-(hydroxymethylamino)-  
α-D-arabinofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C10 H13 F2 N3 O5  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

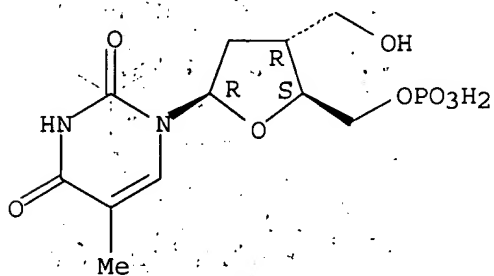


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 6 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 445249-34-3 REGISTRY  
ED Entered STN: 28 Aug 2002  
CN 5'-Thymidylic acid, 3'-deoxy-3'-(hydroxymethyl)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C11 H17 N2 O8 P  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



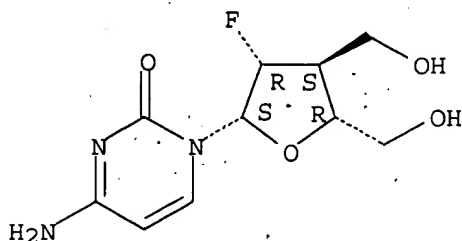
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 7 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 367491-97-2 REGISTRY  
ED Entered STN: 07 Nov 2001

CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethyl)-  
 $\beta$ -L-arabinofuranosyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C10 H14 F N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.

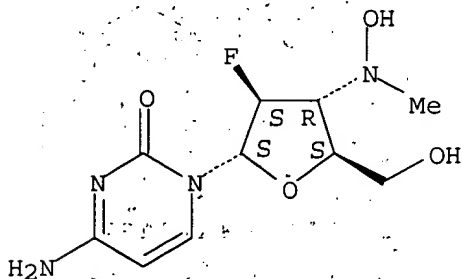


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 8 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 219841-81-3 REGISTRY  
 ED Entered STN: 21 Feb 1999  
 CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethylamino)-  
 $\alpha$ -D-arabinofuranosyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C10 H15 F N4 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



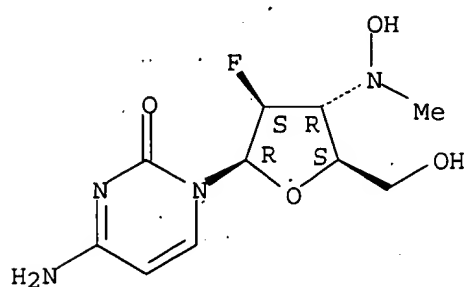
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 9 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 219841-80-2 REGISTRY  
 ED Entered STN: 21 Feb 1999  
 CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethylamino)-  
 $\beta$ -D-arabinofuranosyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C10 H15 F N4 O4

SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

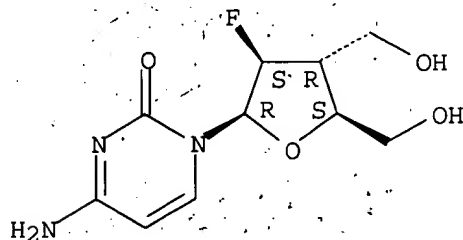


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 10 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 181045-09-0 REGISTRY  
ED Entered STN: 20 Sep 1996  
CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethyl)-  
beta-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C10 H14 F N3 O4  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

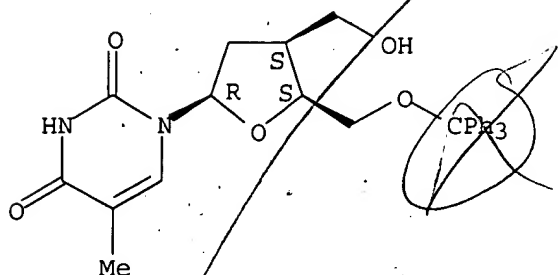


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 11 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 172469-19-1 REGISTRY  
ED Entered STN: 19 Jan 1996  
CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)-5-O-(  
triphenylmethyl)-beta-D-threo-pentofuranosyl]-5-methyl- (9CI) (CA  
INDEX NAME)  
FS STEREOSEARCH  
MF C30 H30 N2 O5  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

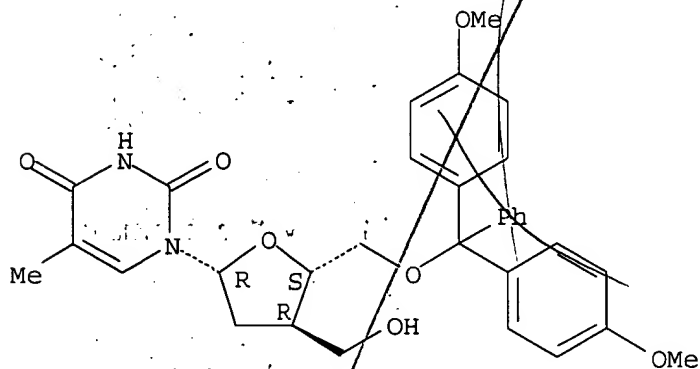


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 12 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 164007-67-4 REGISTRY  
ED Entered STN: 23 Jun 1995  
CN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-3'-deoxy-3'-(hydroxymethyl)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C32 H34 N2 O7  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

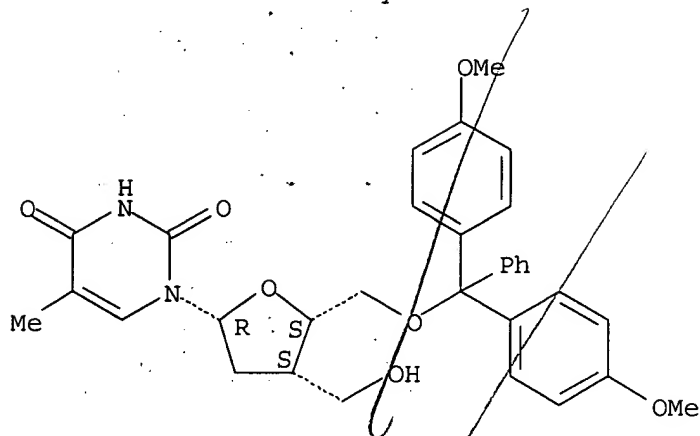


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 13 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 154371-09-2 REGISTRY  
ED Entered STN: 15 Apr 1994  
CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2,3-dideoxy-3-(hydroxymethyl)- $\beta$ -D-threo-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C32 H34 N2 O7  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

Absolute stereochemistry.



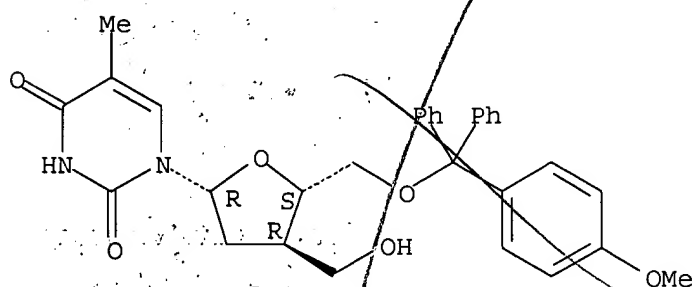
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 14 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 150968-87-9 REGISTRY  
ED Entered STN: 03 Nov 1993  
CN Thymidine, 3'-deoxy-3'-(hydroxymethyl)-5'-O-[(4-methoxyphenyl)diphenylmethyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C31 H32 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, CHEMINFORMRX

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

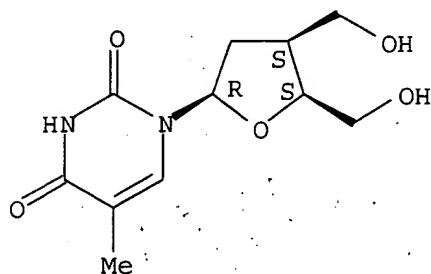
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 15 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 150968-76-6 REGISTRY  
ED Entered STN: 03 Nov 1993  
CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)-beta-D-threo-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C11 H16 N2 O5  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, USPATFULL



(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 16 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN

RN 150968-74-4 REGISTRY

ED Entered STN: 03 Nov 1993

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)-5-O-[(4-methoxyphenyl)diphenylmethyl]-β-D-threo-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)

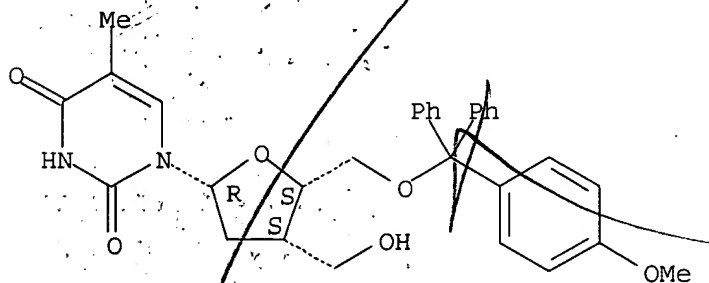
FS STEREOSEARCH

MF C31 H32 N2 O6

SR CA

LC STN Files: CA, CAPLUS, CASREACT, CHEMINFORMRX

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 17 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN

RN 146604-41-3 REGISTRY

ED Entered STN: 24 Mar 1993

CN Thymidine, 3'-deoxy-3'-(hydroxymethyl)-5'-O-(triphenylmethyl)- (9CI) (CA INDEX NAME)

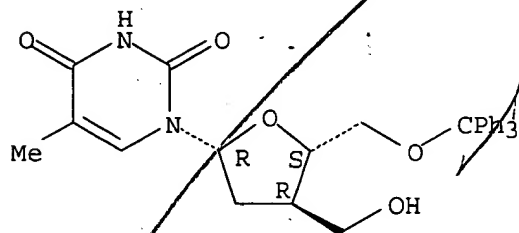
FS STEREOSEARCH=

MF C30 H30 N2 O5

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

11 REFERENCES IN FILE CA (1907 TO DATE)

11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 18 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN

RN 146557-80-4 REGISTRY

ED Entered STN: 19 Mar 1993

CN Thymidine, 3'-deoxy-5'-O-[(1,1-dimethylethyl)diphenylsilyl]-3'-(hydroxymethyl)- (9CI) (CA INDEX NAME)

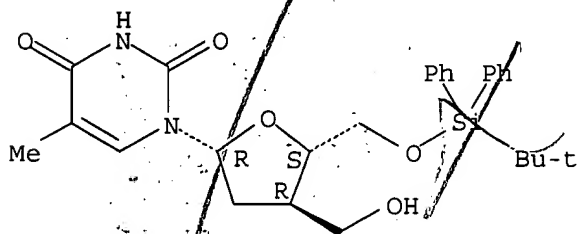
FS STEREOSEARCH

MF C27 H34 N2 O5 Si

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

15 REFERENCES IN FILE CA (1907 TO DATE)

15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 19 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN

RN 143483-43-6 REGISTRY

ED Entered STN: 16 Sep 1992

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)-alpha-L-erythro-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

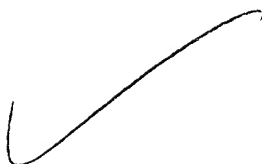
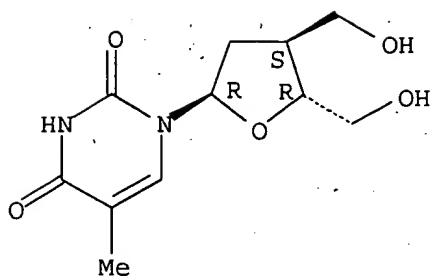
MF C11 H16 N2 O5

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry.

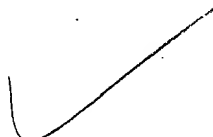
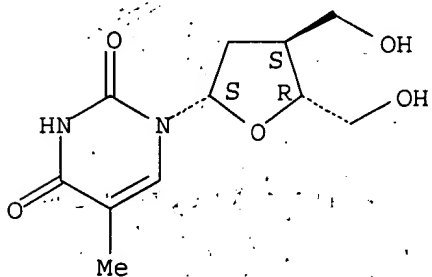


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 20 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 143483-42-5 REGISTRY  
ED Entered STN: 16 Sep 1992  
CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)- $\beta$ -L-erythro-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C11 H16 N2 O5  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.

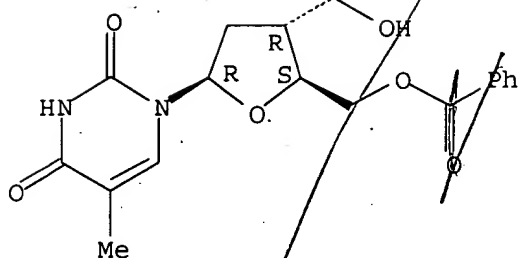


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 21 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 142820-93-7 REGISTRY  
ED Entered STN: 07 Aug 1992  
CN Thymidine, 3'-deoxy-3'-(hydroxymethyl)-, 5'-benzoate (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C18 H20 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

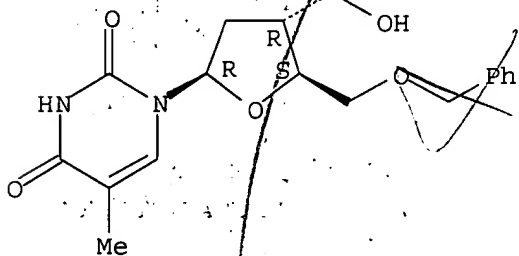


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 22 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 133713-95-8 REGISTRY  
ED Entered STN: 10 May 1991  
CN Thymidine, 3'-deoxy-3'-(hydroxymethyl)-5'-O-(phenylmethyl)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C18 H22 N2 O5  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

Absolute stereochemistry.

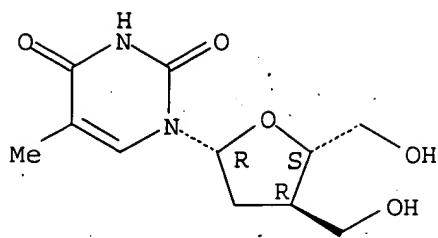


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3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 23 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 132235-71-3 REGISTRY  
ED Entered STN: 22 Feb 1991  
CN Thymidine, 3'-deoxy-3'-(hydroxymethyl)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C11 H16 N2 O5  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.

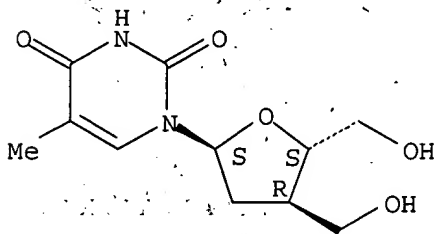


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14 REFERENCES IN FILE CA (1907 TO DATE)  
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 24 OF 24 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 132235-70-2 REGISTRY  
ED Entered STN: 22 Feb 1991  
CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)- $\alpha$ -D-erythro-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C11 H16 N2 O5  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file.caplus.

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
689.91	690.12

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:41:25 ON 20 DEC 2005  
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 20 Dec 2005 VOL 143 ISS 26  
FILE LAST UPDATED: 19 Dec 2005 (20051219/ED)

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<http://www.cas.org/infopolicy.html>

=> d his

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FILE 'REGISTRY' ENTERED AT 14:38:10 ON 20 DEC 2005

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L2 STRUCTURE UPLOADED  
L3 STRUCTURE UPLOADED  
L4 STRUCTURE UPLOADED  
L5 0 S L1 SAM  
L6 2 S L1 SSS FULL  
L7 16 S L2 SSS FULL  
L8 2 S L3 SSS FULL  
L9 4 S L4 SSS FULL  
L10 24 S L6 OR L7 OR L8 OR L9

FILE 'CAPLUS' ENTERED AT 14:41:25 ON 20 DEC 2005

=> s 110

L11 50 L10

(FILE 'HOME' ENTERED AT 14:38:01 ON 20 DEC 2005)

FILE 'REGISTRY' ENTERED AT 14:38:10 ON 20 DEC 2005

L1 STRUCTURE UPLOADED  
L2 STRUCTURE UPLOADED  
L3 STRUCTURE UPLOADED  
L4 STRUCTURE UPLOADED  
L5 0 S L1 SAM  
L6 2 S L1 SSS FULL  
L7 16 S L2 SSS FULL  
L8 2 S L3 SSS FULL  
L9 4 S L4 SSS FULL  
L10 24 S L6 OR L7 OR L8 OR L9

FILE 'CAPLUS' ENTERED AT 14:41:25 ON 20 DEC 2005

=> s l10

L11 50 L10

=> s l11 and (hvc or hdv or hepatitis)

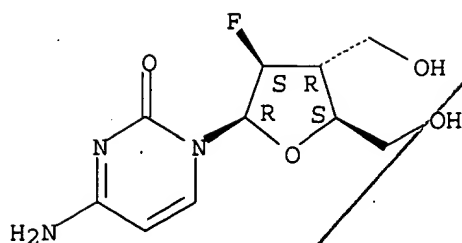
508 HVC  
184 HVCS  
609 HVC  
(HVC OR HVCS)  
697 HDV  
14 HDVS  
703 HDV  
(HDV OR HDVS)  
50551 HEPATITIS

L12 2 L11 AND (HVC OR HDV OR HEPATITIS)

=> d l12 bib abs hitstr

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:714301 CAPLUS  
DN 140:199600  
TI Synthesis and Antiviral Evaluation of 2',3'-Dideoxy-2'-fluoro-3'-C-hydroxymethyl- $\beta$ -D-arabinofuranosyl Pyrimidine Nucleosides  
AU Hassan, Abdalla E. A.; Pai, Balakrina S.; Lostia, Stefania; Stuyver, Lieven; Otto, Michael J.; Schinazi, Raymond F.; Watanabe, Kyoichi A.  
CS Pharmasset Inc., Tucker, GA 30084, USA  
SO Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 891-894  
CODEN: NMNAFY; ISSN: 1525-7770  
PB Marcel Dekker, Inc.  
DT Journal  
LA English  
AB The synthesis and anti-HBV and anti-HIV activity of a number of 2',3'-dideoxy-2'-fluoro-3'-C-hydroxymethyl- $\beta$ -D-arabinofuranosyl pyrimidine nucleosides are reported.  
IT 181045-09-0  
RL: PAC (Pharmacological activity); BIOL (Biological study)  
(synthesis and antiviral evaluation of dideoxy-2'-fluoro-3'-hydroxymethyl- $\beta$ -D-arabinofuranosyl pyrimidine nucleosides)  
RN 181045-09-0 -CAPLUS  
CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethyl)- $\beta$ -D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

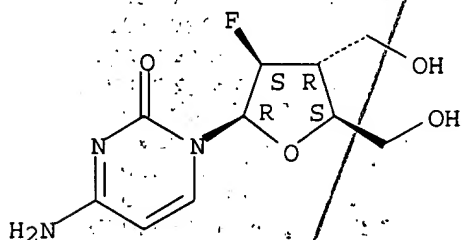


RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l12 bib abs hitstr 1-2

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:714301 CAPLUS  
DN 140:199600  
TI Synthesis and Antiviral Evaluation of 2',3'-Dideoxy-2'-fluoro-3'-C-hydroxymethyl-β-D-arabinofuranosyl Pyrimidine Nucleosides  
AU Hassan, Abdalla E. A.; Pai, Balakrishna S.; Lostia, Stefania; Stuyver, Lieven; Otto, Michael J.; Schinazi, Raymond F.; Watanabe, Kyoichi A.  
CS Pharmasset Inc., Tucker, GA, 30084, USA  
SO Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 891-894  
CODEN: NNNAFY; ISSN: 1525-7770  
PB Marcel Dekker, Inc.  
DT Journal  
LA English  
AB The synthesis and anti-HBV and anti-HIV activity of a number of 2',3'-dideoxy-2'-fluoro-3'-C-hydroxymethyl-β-D-arabinofuranosyl pyrimidine nucleosides are reported.  
IT 181045-09-0  
RL: PAC (Pharmacological activity); BIOL (Biological study)  
(synthesis and antiviral evaluation of dideoxy-2'-fluoro-3'-hydroxymethyl-β-D-arabinofuranosyl pyrimidine nucleosides)  
RN 181045-09-0 CAPLUS  
CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethyl)-β-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

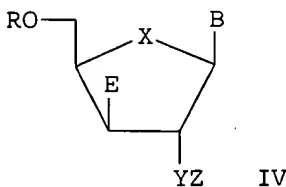
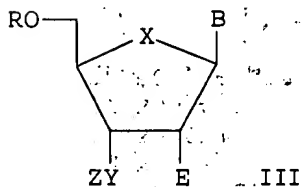
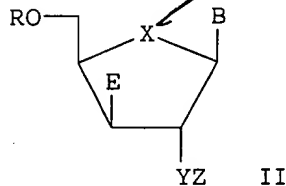
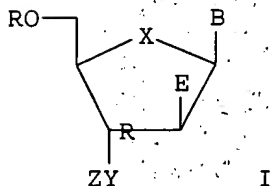
L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2001:780927 CAPLUS  
DN 135:318659  
TI Preparation of 3'-or 2'-hydroxymethyl substituted nucleoside and nucleotides for treatment of hepatitis virus infections  
IN Watanabe, Kyoichi A.; Pai, Balakrishna S.



PA Pharmasset, Ltd., Barbados  
 SO PCT Int. Appl., 175 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001079246	A2	20011025	WO 2001-US12050	20010413
	WO 2001079246	A3	20020815		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
✓ CA	2404639	AA	20011025	CA 2001-2404639	20010413
US	2002055483	A1	20020509	US 2001-834596	20010413
EP	1284741	A2	20030226	EP 2001-932551	20010413
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP	2003532643	T2	20031105	JP 2001-576844	20010413
BR	2001010023	A	20031230	BR 2001-10023	20010413
PRAI	US' 2000-197068P	P	20000413		
	US' 2000-202663P	P	20000508		
	WO 2001-US12050	W	20010413		
OS	MARPAT 135:318659				
GI					

*my Case*



AB The present invention relates to a composition for and a method of treating **hepatitis B virus (HBV) infection, hepatitis C virus (HCV) infection, hepatitis D virus (HDV) infection** or a proliferative disorder in a patient using an effective amount of a compound selected from the group consisting of nucleoside or nucleotide I-IV mixts. of two or more wherein E is selected from the group consisting of H, OH, OMe, SH, SMe, NH<sub>2</sub>, NHMe, N, F, Cl, Br, COH, CO<sub>2</sub>-alkyl, OPh, OPhNO, NO,

NO<sub>2</sub>, SCN, OCN, NCS, NCO, SO<sub>2</sub>, SO<sub>2</sub>; X is selected from the group consisting of O, S, NH, CH, CHF, CF; Y is selected from the group consisting of CH, NH, NOH, NMe, NEt, NOME, CHF, CF; Z is selected from the group consisting of H, OH, OMe, SH, SMe, F, Cl, Br, I, NH, NHMe; B is a nucleobase, R is a phosphate derivative. Pharmaceutical compns. comprising these compds. in combination with other HBV, HCV, or HDV agents is also disclosed. Thus, 1-[2,3-Dideoxy-2-β-fluoro-3-(N-hydroxy-N-iso-butylamino)-α-D-arabinofuranosyl]-5-fluoro-uracil was prepared and tested in vitro for its antiviral activity.

IT 132235-71-3P 150968-76-6P 219841-80-2P

219841-81-3P 367491-97-2P

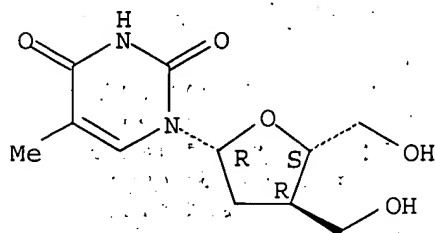
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of or hydroxymethyl substituted nucleoside and nucleotides for treatment of hepatitis virus infections)

RN 132235-71-3 CAPLUS

CN Thymidine, 3'-deoxy-3'-(hydroxymethyl)- (9CI) (CA INDEX NAME)

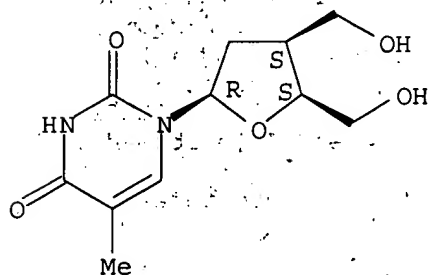
Absolute stereochemistry.



RN 150968-76-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-dideoxy-3-(hydroxymethyl)-β-D-threo-pentofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)

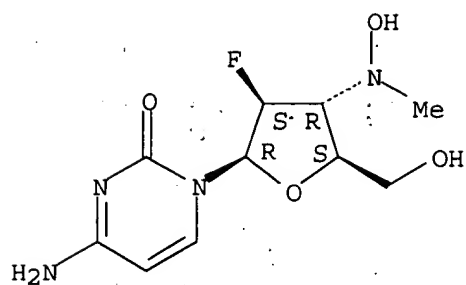
Absolute stereochemistry.



RN 219841-80-2 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethylamino)-β-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

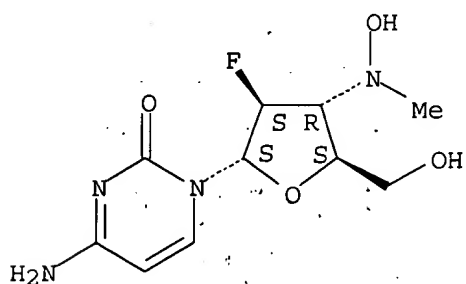
Absolute stereochemistry.



RN 219841-81-3 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethylamino)- $\alpha$ -D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 367491-97-2 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[2,3-dideoxy-2-fluoro-3-(hydroxymethyl)- $\beta$ -L-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

